

- Sub  
①
- C1  
cancel
- (i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 40/60 to 95/5,
  - (ii) the iodine value is in the range of 0.5 to 50, and
  - (iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 0.3 to 10 dl/g.

C2  
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①

8. (Amended) The crosslinkable rubber composition as claimed in claim 2, wherein the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) is obtained by copolymerizing ethylene, an  $\alpha$ -olefin and the norbornene compound represented by the formula (I) or (II) using a catalyst containing the following compounds (J) and (K) as main components under the conditions of a polymerization temperature of 30 to 60°C, a polymerization pressure of 4 to 12 kgf/cm<sup>2</sup> and a feed rate molar ratio (non-conjugated polyene/ethylene) of the non-conjugated polyene to ethylene ranging from 0.01 to 0.2;

(J) a soluble vanadium compound represented by  $\text{VO}(\text{OR})_n\text{X}_{3-n}$  (R is a hydrocarbon group, X is a halogen atom, and n is 0 or an integer of 1 to 3), or a vanadium compound represented by  $\text{VX}_4$  (X is a halogen atom);

(K) an organoaluminum compound represented by  $\text{R}'_m\text{AlX}'_{3-m}$  (R' is a hydrocarbon group, X' is a halogen atom, and m is an integer of 1 to 3).

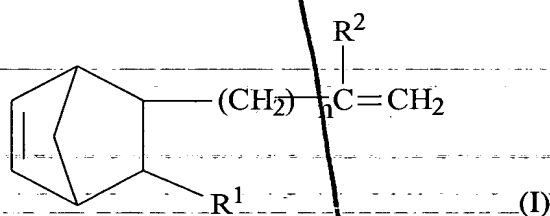
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10. (Amended) The crosslinkable rubber composition as claimed in claim 3, wherein the catalyst (E) is a platinum catalyst

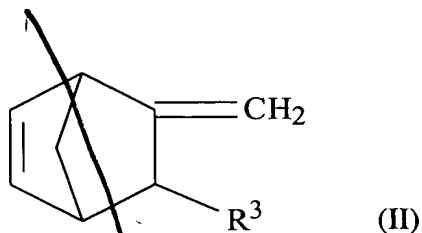
C4  
12. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which has a crosslinking rate ( $t_c(90)$ ) at 160°C of not more than 15 minutes.

13. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which comprises

Sub D1  
an ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A1) having constituent units derived from at least one kind of a vinyl end group-containing norbornene compound represented by the following formula (I) or (II), said norbornene compound being the non-conjugated polyene, and constituent units derived from a non-conjugated polyene compound (2) containing a group represented by the following formula (III); and the SiH group-containing compound (E) having at least two SiH groups in one molecule:

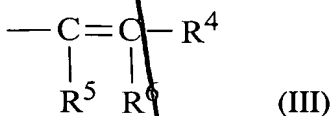


wherein n is an integer of 0 to 10, R<sup>1</sup> is a hydrogen atom or an alkyl group of 1 to 10 carbon atoms, and R<sup>2</sup> is a hydrogen atom or an alkyl group of 1 to 5 carbon atoms;



C4  
contd

wherein R<sup>3</sup> is a hydrogen atom or an alkyl group of 1 to 10 carbon atoms;



wherein R<sup>4</sup> is an alkyl group of 1 to 10 carbon atoms, and R<sup>5</sup> and R<sup>6</sup> are each independently a hydrogen atom or an alkyl group of 1 to 10 carbon atoms.

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D1

14. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, wherein the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) is the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A1) and has the following properties:

- (i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 40/60 to 95/5,
- (ii) the iodine value is in the range of 0.5 to 50,
- (iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 0.3 to 10 dl/g, and

(iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 5.

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D1  
C4  
enclosed

15. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is a blend comprising the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A), a polyolefin resin (D1) and the SiH group-containing compound (B), is obtained by microdispersing the polyolefin resin (D1) in the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) in a molten state, and has the following properties:

the average dispersed particle diameter of the polyolefin resin (D1) is not more than 2  $\mu$ m, and

the blending weight ratio ((D1)/(A)) of the polyolefin resin (D1) to the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) is in the range of 5/95 to 50/50.

C5

17. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, wherein the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) has the following properties:

- Sub  
D1
- (i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 40/60 to 95/5,
  - (ii) the iodine value is in the range of 0.5 to 50,

(iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 0.3 to 10 dl/g, and

(iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 5.

CS cont'd  
18. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which further comprises an alkenyl group-containing organopolysiloxane (C) in addition to the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) and the SiH group-containing compound (B).

Sub D1  
19. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, wherein the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) has the following properties:

(i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 40/60 to 95/5,

(ii) the iodine value is in the range of 0.5 to 50;

(iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 0.3 to 10 d/g, and

(iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 5.

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CS  
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20. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is crosslinkable by hot air and has the following properties:

a hot-air crosslinked rubber sheet obtained by molding said rubber composition into a sheet and then subjecting the sheet to hot-air crosslinking has no scratch on the surface in a pencil hardness test using a pencil of HB and has a compression set (CS) of not more than 70 % after a heat treatment at 150°C for 22 hours and a tensile strength retention of 50 to 300 % after heat aging at 150°C for 72 hours.

21. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing an automobile weatherstrip.

CG  
23. (Amended) An automobile weatherstrip formed from the crosslinkable rubber composition of any one of claims 1 to 10.

24. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is a rubber composition for glass run that is crosslinkable by hot air and a hot press and which has the following properties:

a hot-press crosslinked rubber sheet obtained by molding said rubber composition into a sheet and then subjecting the sheet to hot-press crosslinking has a tensile strength of 5 to 16 MPa and a compression set (CS) of not more than 70 % after a heat treatment at 150°C for 22 hours.

25. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is a crosslinkable rubber composition for glass run and in which the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) has the following properties:

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- (i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 60/40 to 80/20,
  - (ii) the iodine value is in the range of 1 to 30,
  - (iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 1.5 to 3.5 dl/g, and
  - (iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 5.

C7

27. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing an automobile hose, a water supply hose or a gas hose.

C8

29. (Amended) A hose formed from the crosslinkable rubber composition of any one of claims 1 to 10.

C9

31. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is a rubber composition for hose that is crosslinkable by hot air and a hot press and which has the following properties:

39 amended  
a hot-press crosslinked rubber sheet obtained by molding said rubber composition into a sheet and then subjecting the sheet to hot-press crosslinking has a volume resistivity (23°C) of  $10^3$  to  $10^{16}$   $\Omega\cdot\text{cm}$ , a tensile strength of 5 to 30 MPa and a compression set (CS) of not more than 70 % after a heat treatment at 150°C for 22 hours.

32. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is a crosslinkable rubber composition for hose and in which the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) has the following properties:

- (i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 60/40 to 80/20,
- (ii) the iodine value is in the range of 1 to 30,
- (iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 0.3 to 5.0 dl/g, and
- (iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 5.

33. (Amended) A hose comprising the rubber composition of claim 31.

34. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing an automobile rubber vibration insulator, a



C9  
cancel

railway rubber vibration insulator, an industrial equipment rubber vibration insulator or an earthquake proof rubber for construction.

C10

38. (Amended) A rubber vibration insulator comprising the crosslinkable rubber composition of any one of claims 1 to 10

C11

40. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is a rubber composition for rubber vibration insulator that is crosslinkable by hot air and a hot press and which has the following properties:

a hot-press crosslinked rubber sheet obtained by molding said rubber composition into a sheet and then subjecting the sheet to hot-press crosslinking has a tensile strength of 5 to 16 MPa and a compression set (CS) of not more than 70 % after a heat treatment at 150°C for 22 hours.

41. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is a crosslinkable rubber composition for rubber vibration insulator and in which the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) has the following properties:

- (i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 60/40 to 80/20,
- (ii) the iodine value is in the range of 1 to 30

(iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 1.5 to 3.5 dl/g, and

(iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 5.

C11  
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42. (Amended) A vibration insulating rubber product formed from the rubber composition of claim 40.

43. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing a transmission belt or a conveyor belt.

C12  
46. (Amended) A belt formed from the crosslinkable rubber composition of any one of claims 1 to 10.

C13  
48. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing an automobile cup/sealing material or an industrial equipment sealing material.

C14  
51. (Amended) A sealing material formed from the crosslinkable rubber composition of any one of claims 1 to 10.

C15  
53. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing an automobile weatherstrip sponge or another expanded product.

C16  
56. (Amended) An expanded product formed from the crosslinkable rubber composition of any one of claims 1 to 10.

C17  
58. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is a rubber composition for weatherstrip sponge that is crosslinkable by hot air and which has the following properties:

a crosslinked rubber sheet obtained by molding said rubber composition into a sheet and then subjecting the sheet to hot-air crosslinking has a specific gravity of 0.1 to 0.8 and a water absorption of not more than 50 %.

59. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is a rubber composition for weatherstrip sponge and in which the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) has the following properties:

- (i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 60/40 to 90/10,
- (ii) the iodine value is in the range of 1 to 30,

(iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 0.3 to 5 dl/g, and

(iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 3.

60. (Amended) A weatherstrip sponge formed from the crosslinkable rubber composition of any one of claims 1 to 10.

61. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is a rubber composition for highly expanded sponge that is crosslinkable by hot air and which has the following properties:

an expanded product of a crosslinked rubber sheet obtained by molding said rubber composition into a sheet and then subjecting the sheet to hot-air crosslinking has a specific gravity of 0.01 to 0.5, a water absorption of 1 to 500 % and an Asker C hardness of 0.1 to 50.

62. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is a crosslinkable rubber composition for highly expanded sponge and in which the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) has the following properties:

(i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 60/40 to 90/10,

(ii) the iodine value is in the range of 1 to 30,

(iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 0.3 to 4 dl/g, and

(iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 5.

63. (Amended) A highly expanded sponge formed from the rubber composition of any one of claims 1 to 10.

65. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing a covered electric wire, an electric wire joint or an electric insulating part.

66. (Amended) A covered electric wire covered with a covering material comprising the crosslinkable rubber composition of any one of claims 1 to 10.

67. (Amended) An electric wire joint formed from the crosslinkable rubber composition of any one of claims 1 to 10.

68. (Amended) An electric insulating part formed from the crosslinkable rubber composition of any one of claims 1 to 10.

69. (Amended) A semi-conducting ~~rubber~~ part formed from the crosslinkable rubber composition of any one of claims 1 to 10.

70. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is a rubber composition for electric or electronic part that is crosslinkable by hot air and a hot press and which has the following properties:

C18  
contd  
D1  
a hot-press crosslinked rubber sheet obtained by molding said rubber composition into a sheet and then subjecting the sheet to hot-press crosslinking has a volume resistivity (23°C) of  $10^7$  to  $10^{17}$   $\Omega\cdot\text{cm}$ , a tensile strength of 3 to 20 MPa and a compression set (CS) of not more than 70 % after a heat treatment at 150°C for 22 hours.

71. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is a crosslinkable rubber composition for electric or electronic part and in which the ethylene/ $\alpha$ -olefin/non-conjugated polyene random copolymer rubber (A) has the following properties:

- (i) the molar ratio (ethylene/ $\alpha$ -olefin) of ethylene to an  $\alpha$ -olefin of 3 to 20 carbon atoms is in the range of 60/40 to 90/10,
- (ii) the iodine value is in the range of 1 to 30,
- (iii) the intrinsic viscosity ( $\eta$ ) as measured in decalin at 135°C is in the range of 0.3 to 2.5 dl/g, and,
- (iv) the branch index as measured by a kinematic viscoelasticity measuring machine is not less than 5.

72. (Amended) An electric or electronic part formed from the crosslinkable rubber composition of any one of claims 1 to 10.

73. (Amended) the crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing a household rubber product.

75. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which can be crosslinked at ordinary temperature.

76. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is used for reaction injection molding (RIM).

77. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is used for producing a thermoplastic elastomer.

78. (Amended) The crosslinkable rubber composition as claimed in any one of claims 2 to 10, which is used for modifying an engineering plastic.

79. (Amended) A household rubber product formed from the crosslinkable rubber composition of any one of claims 1 to 10.

C19  
cancel  
80. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing a sealing sponge for construction.

C20  
83. (Amended) The crosslinkable rubber composition as claimed in any one of claims 1 to 10, which is used for producing an OA machine roll or an industrial roll.

C21  
86. (Amended) An OA machine roll comprising the crosslinkable rubber composition of any one of claims 1 to 10.

87. (Amended) An industrial roll formed from the crosslinkable rubber composition of any one of claims 1 to 10.

C22  
94. (Amended) A hydraulic cylinder part formed from the rubber composition of any one of claims 88 to 92.

Please add new claims 112 and 113 as follows:

C23  
--112. (New) A hose comprising the rubber composition of claim 32.

113. (New) A vibration insulating rubber product formed from the rubber composition of claim 41.--